

09/308725

510 Rec'd PCT/PTO 24 MAY 1999

Express Mail Label No.: EL381054426US

Sheet 1 of 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. SHP-PT045	SERIAL NO. Not Yet Known
	APPLICANT Lalvani et al.	
	FILING DATE Not Yet Known	GROUP 1648 Not Yet Known

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
SBC	AA 9 7 0 0 0 6 7	1/97	PCT	A61K	14/35		
	AB 1 9 5 2 5 7 84	1/97	Germany	C07K	16/00		X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SBC	AC	Journal of Immunological Methods, Vol. 191, Herr et al.; "Detection and quantification of blood-derived DC8 + T lymphocytes secreting tumor necrosis factor in response to HLA-A2.1- binding melanoma and viral peptide antigens"; 1996; pp 131-142
SBC	AD	Journal of Immunological Methods, Vol. 203; Herr et al.; "The use of computer-assisted video image analysis for the quantification of CD8 + T lymphocytes producing tumor necrosis factor and spots in response to peptide antigens"; 1997; pp 141-152

EXAMINER /Stacy B. Chen/ (06/06/2006)

DATE CONSIDERED 06/06/2006

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.


**INFORMATION DISCLOSURE
CITATION**

APPLN. NO.

09/308,725

ATTY. DKT. NO.

3772-19

APPLICANT

LALVANI et al.

FILING DATE

May 24, 1999

GROUP

Not Known

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AQ						
BQ						
CQ						
DQ						
EQ						

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
FQ					
GQ					

OTHER DOCUMENTS (including Author, Title, Pertinent pages, Date, etc.)

SBC	HQ	Int'l Search Report for PCT/GB97/03222, 3 pages (1998)
SBC	IQ	Int'l Preliminary Examination Report for PCT/GB97/03222, 10 pages (1999)
SBC	JQ	European Search Report for divisional EP 01109298.8, 3 pages (2001)
	KQ	
	LQ	
	MQ	
	NQ	
	OQ	
	PQ	
	QQ	
	RQ	
	SQ	
	TQ	
	UQ	
	VQ	
	WQ	
	XQ	
	YQ	
	ZQ	

*Examiner	/Stacy B. Chen/ (06/06/2006)	Date Considered	06/06/2006
-----------	------------------------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

INFORMATION DISCLOSURE
CITATION

APPLN. NO.

09/308,725

ATTY. DKT. NO.

3772-19

APPLICANT

LALVANI et al.

(Use several sheets if necessary)

FILING DATE

May 24, 1999

GROUP

Not Known

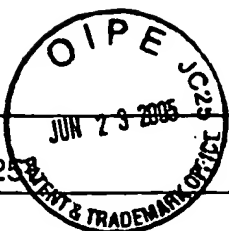
OTHER DOCUMENTS (including Author, Title, Pertinent pages, Date, etc.)

SBC	AS	Kabilan et al. "Detection of intracellular expression and secretion of interferon- γ at the single-cell level after activation of human T cells with tetanus toxoid <i>in vitro</i> " Eur. J. Immunol. 20:1085-1089 (1990)
	BS	Klinman et al. "ELISPOT assay to detect cytokine-secreting murine and human cells" <i>Current Protocols in Immunology</i> , Coligan et al. (eds.), John Wiley, 6.19.1-6.19.8 (1994)
	CS	Klinman et al. "Activation of interleukin 4- and interleukin 6-secreting cells by HIV-specific synthetic peptides" AIDS Res. Hum. Retro. 11:97-105 (1995)
	DS	Kündig et al. "On the role of antigen in maintaining cytotoxic T-cell memory" Proc. Natl. Acad. Sci. USA 93:9716-9723 (1996)
	ES	Lalvani et al. "Rapid effector function in CD8 ⁺ memory T cells" J. Exp. Med. 186:859-865 (1997)
	FS	Lalvani et al. "Human cytolytic and interferon γ -secreting CD8 ⁺ T lymphocytes" Proc. Natl. Acad. Sci. USA 95:270-275 (1998)
	GS	Mackay "Immunology: Dual personality of memory T cells" Nature 401:659-660 (1999)
	HS	Mehra et al. "Immune response to recombinant mycobacterial proteins in patients with tuberculosis infection and disease" J. Infect. Dis. 174:431-434 (1996)
	IS	Miyahira et al. "Quantification of antigen specific CD8 ⁺ T cells using an ELISPOT assay" J. Immunol. Meth. 181:45-54 (1995)
	JS	Oxford Immunotec "New TB test brings tuberculosis care into 21 st century" Press release, 3 pages (1994)
	KS	Oxford Immunotec "T SPOT-TB" Instructions for use, 5 pages (1994)
	LR	Oxford Immunotec "Summary of clinical trials completed using T SPOT-TB" 2 pages (1994)
	MS	Pollock et al. "Peptide mapping of bovine T-cell epitopes for the 38 kDa tuberculosis antigen" Scand. J. Immunol. 41:85-93 (1995)
	NS	Rothel et al. "Analysis of polyclonal T-cell determinants on the Mycobacterium bovis secretory protein MPB-70" <i>Vaccines 90</i> , Lome (Program and Abstracts) Abstract E42 (1990)
	OS	Rothel et al. "A sandwich enzyme immunoassay for bovine interferon- γ and its use for the detection of tuberculosis in cattle" Austral. Vet. J. 67:134-137 (1990)
	PS	Rothel et al. "The gamma-interferon assay for diagnosis of bovine tuberculosis in cattle: Conditions affecting the production of gamma-interferon in whole blood culture" Austral. Vet. J. 69:1-4 (1992)
	QS	Sørensen et al. "Purification and characterization of a low-molecular-mass T-cell antigen secreted by <i>Mycobacterium tuberculosis</i> " Infect. Immun. 63:1710-1717 (1995)
	RS	Surcel et al. "Th1/Th2 profiles in tuberculosis, based on the proliferation and cytokine response of blood lymphocytes to mycobacterial antigens" Immunol. 81:171-176 (1994)
	SS	Taguchi et al. "Detection of individual mouse splenic T cells producing IFN- γ and IL-5 using the enzyme-linked immunospot (ELISPOT) assay" J. Exp. Med. 128:65-73 (1990)
	TS	Whipple et al. "Comparison of the sensitivity of the caudal fold skin test and a commercial γ -interferon assay for diagnosis of bovine tuberculosis" Am. J. Vet. Res. 56:415-419 (1995)
	US	Wood et al. "Epitope mapping of the polyclonal bovine T and B cell response to a mycobacterial protein" <i>Frontiers in Mycobacteriology: Immunology of Mycobacterial Infections</i> , Vail, Colorado, Abstract 9 (1990)
	VS	Wood et al. "Development of a simple, rapid in vitro cellular assay for bovine tuberculosis based on the production of γ interferon" Res. Vet. Sci. 49:46-49 (1990)
	WS	Wood et al. "Field comparison of the interferon-gamma assay and the intradermal tuberculin test for the diagnosis of bovine tuberculosis" Austral. Vet. J. 68:286-290 (1991)
V	XS	Wood et al. "A field evaluation of serological and cellular diagnostic tests for bovine tuberculosis" Vet. Microbiol. 31:71-79 (1992)

*Examiner	/Stacy B. Chen/ (06/06/2006)	Date Considered	06/06/2006
-----------	------------------------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

INFORMATION DISCLOSURE
CITATION

APPLN. NO.

09/308,725

APPLICANT

LALVANI et al.

FILING DATE

May 24, 1999

ATTY. DKT. NO.

3772-19

GROUP

Not Known

(Use several sheets if necessary)

OTHER DOCUMENTS (including Author, Title, Pertinent pages, Date, etc.)

SBC	AT	Ahmed et al. "Immunological memory and protective immunity: Understanding their relation" Science 272:54-60 (1996)
	BT	Aidoo et al. "Identification of conserved antigenic components for a cytotoxic T lymphocyte-inducing vaccine against malaria" Lancet 345:1003-1007 (1995)
	CT	Coghlan "Tuberculosis testing finally moves into the 21 st century" New Scientist 2390:21 (2003)
	DT	Ellefsen et al. "Distribution and functional analysis of memory antiviral CD8 T cell responses in HIV-1 and cytomegalovirus infections" Eur. J. Immunol. 32:3756-3764 (2002)
	ET	Ewer et al. "Comparison of T-cell-based assay with tuberculin skin test for diagnosis of <i>Mycobacterium tuberculosis</i> infection in a school tuberculosis outbreak" Lancet 361:1168-1173 (2003)
	FT	Falk et al. "Identification of naturally processed viral nonapeptides allows their quantification in infected cells and suggests an allele-specific T cell epitope forecast" J. Exp. Med. 174:425-434 (1991)
	GT	Falk et al. "Pool sequencing of natural HLA-DR, DQ, and DP ligands reveals detailed peptide motifs, constraints of processing, and general rules" Immunogenetics 39:230-242 (1994)
	HT	Hammer et al. "Identification of a motif for HLA-DR1 binding peptides using M13 display libraries" J. Exp. Med. 176:1007-1013 (1992)
	IT	Hammer et al. "Promiscuous and allele-specific anchors in HLA-DR-binding peptides" Cell 74:197-203 (1993)
	JT	Hammer et al. "Precise prediction of major histocompatibility complex class II-peptide interaction based on peptide side chain scanning" J. Exp. Med. 180:2353-2358 (1994)
	KT	Hill et al. "Molecular analysis of the association of HLA-B53 and resistance to severe malaria" Nature 360:434-439 (1992)
	LT	Hislop et al. "EBV-specific CD8 T cell memory: Relationships between epitope specificity, cell phenotype, and immediate effector function" J. Immunol. 167:2019-2029 (2001)
	MS	Huang et al. "Oxidized LDL induces enhanced antibody formation and MHC class II-dependent IFN- γ production in lymphocytes from healthy individuals" Arteriosclerosis, Thrombosis, and Vascular Biology 15:1577-1583 (1995)
	NT	Lalvani et al. "An HLA-based approach to the design of a CTL-inducing vaccine against <i>Plasmodium falciparum</i> " Res. Immunol. 145:461-468 (1994)
	OT	Lalvani et al. "Potent induction of focused Th1-Type cellular and humoral immune responses by RTS,S/SBAS2, a recombinant <i>Plasmodium falciparum</i> malaria vaccine" J. Infect. Dis. 180:1656-1664 (1999)
	PT	Lalvani et al. "Rapid detection of <i>Mycobacterium tuberculosis</i> infection by enumeration of antigen-specific T cells" Am. J. Respir. Crit. Care Med. 163:824-928 (2001)
	QT	Link et al. "Acetylcholine receptor-reactive T and B cells in myasthenia gravis and controls" J. Clin. Invest. 87:2191-2196 (1991)
	RT	Lu et al. "Interferon γ - and interleukin-4-secreting cells in multiple sclerosis" J. Neuroimmunol. 46:129-136 (1993)
	ST	Mackay "Immunological memory" Adv. Immunol. 53:217-265 (1993)
	TT	McMichael et al. "A new look at T cells" J. Exp. Med. 187:1367-1371 (1998)
	UT	Milligan et al. "Analysis of herpes simplex virus-specific T cells in the murine female genital tract following genital infection with herpes simplex virus type 2" Virology 212:481-489 (1995)
	VT	Müller et al. "Expansion of gamma interferon-producing CD8 T cells following secondary infection of mice immune to <i>Leishmania major</i> " Infect. Immun. 62:2575-2581 (1994)

*Examiner /Stacy B. Chen/ (06/06/2006) Date Considered 06/06/2006

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

INFORMATION DISCLOSURE
CITATION

APPLN. NO.

09/308,725

ATTY. DKT. NO.

3772-19

APPLICANT

LALVANI et al.

(Use several sheets if necessary)

FILING DATE

May 24, 1999

GROUP

Not Known

OTHER DOCUMENTS (including Author, Title, Pertinent pages, Date, etc.)

SBC	AU	Pamer et al. "Precise prediction of a dominant class I MHC-restricted epitope of <i>Listeria monocytogenes</i> " <i>Nature</i> 353:852-855 (1991)
	BU	Pathan et al. "Direct ex vivo analysis of antigen-specific IFN- γ -secreting CD4 T cells in <i>Mycobacterium tuberculosis</i> -infected individuals: Associations with clinical disease state and effect of treatment" <i>J. Immunol.</i> 167:5217-5225 (2001)
	CU	Rammensee et al. "MHC ligands and peptide motifs: First listing" <i>Immunogenetics</i> 41:178-228 (1995)
	DU	Sallusto et al. "Two subsets of memory T lymphocytes with distinct homing potentials and effector functions" <i>Nature</i> 401:708-712 (1999)
	EU	Scheibenbogen et al. "CD8 T-cell responses to Wilms tumor gene product WT1 and proteinase 3 in patients with acute myeloid leukemia" <i>Blood</i> 100:2132-2137 (2002)
	FU	Wang et al. "Lyme neuroborreliosis: Evidence of persistent up-regulation of <i>Borrelia burgdorferi</i> -reactive cells secreting interferon- γ " <i>Scand. J. Immunol.</i> 42:694-700 (1995)
	GU	Yi et al. "Idiotypic-reactive T-cell subsets and tumor load in monoclonal gammopathies" <i>Blood</i> 86:3043-3049 (1995)
	HU	
	IU	
	JU	
	KU	
	LU	
	MU	
	NU	
	OU	
	PU	
	QU	
	RU	
	SU	
	TU	
	UU	

*Examiner	/Stacy B. Chen/ (06/06/2006)	Date Considered	06/06/2006
-----------	------------------------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

IDS 08/05/2005

**INFORMATION DISCLOSURE
CITATION**

APPLN. NO.

ATTY. DKT. NO.

09/308,725

3772-19

APPLICANT

LALVANI et al.

FILING DATE

GROUP 1648

May 24, 1999

Not Known

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR						
BR						
CR						
DR						
ER						
FR						

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
GR					
HR					
IR					
JR					
KR					
LR					

OTHER DOCUMENTS (including Author, Title, Pertinent pages, Date, etc.)

SBC	MR	Minutes of Oral Proceeding before the Opposition Division in EP 0941478 (2005)
	NR	
	OR	
	PR	
	QR	
	RR	
	SR	
	TR	
	UR	
	VR	
	WR	
	XR	
	YR	

*Examiner /Stacy B. Chen/ (06/06/2006) Date Considered 06/06/2006

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.





INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLN. NO.

09/308,725

APPLICANT

LALVANI et al.

FILING DATE

May 24, 1999

ATTY. DKT. NO.

3772-19

GROUP 1648

Not Known

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR						
BR						
CR						
DR						
ER						
FR						

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
GR					
HR					
IR					
JR					
KR					
LR					

OTHER DOCUMENTS (including Author, Title, Pertinent pages, Date, etc.)

SBC	MR	Written Decision of the Opposition Division in EP 0941478 (2005)
	NR	
	OR	
	PR	
	QR	
	RR	
	SR	
	TR	
	UR	
	VR	
	WR	
	XR	
	YR	

*Examiner /Stacy B. Chen/ (06/06/2006) Date Considered 06/06/2006

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

INFORMATION DISCLOSURE
CITATION

(Use several sheets if necessary)

APPLN. NO.

09/308,725

APPLICANT

LALVANI et al.

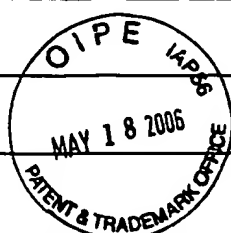
FILING DATE

May 24, 1999

ATTY. DKT. NO.

3772-19

GROUP 1648

~~Not Known~~

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR						
BR						
CR						

FOREIGN PATENT DOCUMENTS

	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	DR						
	ER						
	FR						
	GR						
	HR						
	IR						
	JR						
	KR						
	LR						
	MR						
	NR						
	OR						
	PR						

OTHER DOCUMENTS (Including Author, Title, Pertinent pages, Date, etc.)

SBC	QR	Carrara et al. "Use of a T cell-based assay for monitoring efficacy of antituberculosis therapy" Clin. Infect. Dis. 38:754-756 (2004)
SBC	RR	Cooper "The eukaryotic cell cycle " in Chapter 14 of <i>The Cell: A Molecular Approach, 2nd Ed.</i> , Sinauer Associates, 6 pages (2000)
SBC	SR	Lalvani et al. "Authors' reply" Lancet 361:2082-2083 (2003)
SBC	TR	Lalvani et al. "Enhanced contact tracing and spatial tracking of <i>Mycobacterium tuberculosis</i> infection by enumeration of antigen-specific T cells" Lancet 357:2017-2021 (2001)
SBC	UR	Lalvani et al. "Counting antigen-specific T cells: A new approach for monitoring response to tuberculosis treatment?" Clin. Infect. Dis. 38:757-759 (2004)
SBC	VR	Vincenti et al. "Identification of early secretory antigen target-6 epitopes for the immunodiagnosis of active tuberculosis" Mol. Med. 9:105-111 (2003)
SBC	WR	Wilkinson et al. "38000 MW antigen-specific major histocompatibility complex class I restricted interferon- γ -secreting CD8 ⁺ T cells in healthy contacts of tuberculosis" Immunol. 95:585-590 (1998)
	ZR	
	AAR	
	BBR	
	CCR	
	DDR	
	EER	

*Examiner /Stacy B. Chen/ (06/06/2006) Date Considered 06/06/2006

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)